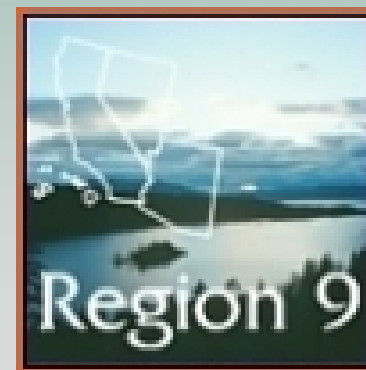




US Environmental Protection Agency

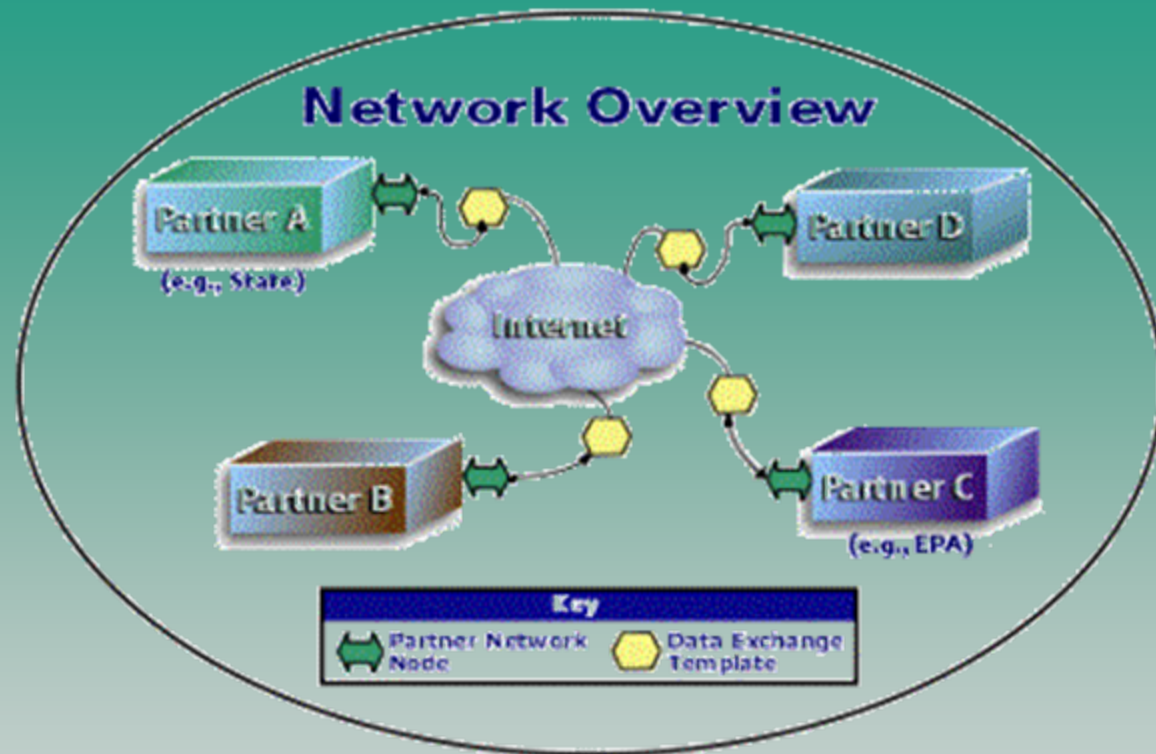
National Environmental Information Exchange Network Program

November 2008





What is the Exchange Network?

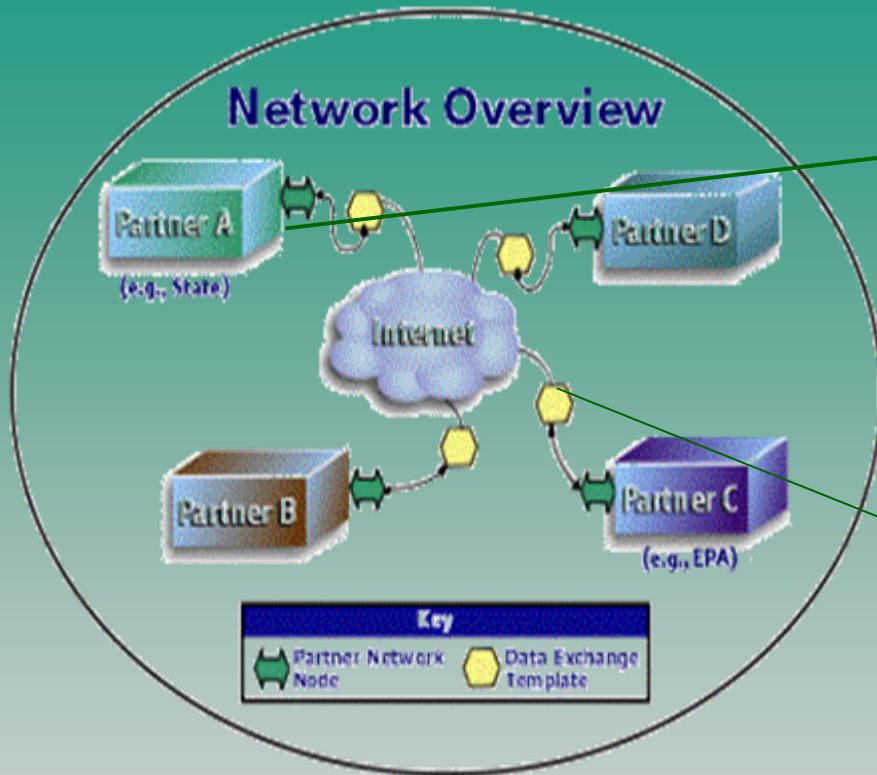


An Internet and standards-based method for exchanging environmental information between partners



Breaking it down!

Network Overview



➤ Nodes

- Hardware and software used to exchange information on the Network
- Transfer point on the Network

➤ Data Exchange Templates

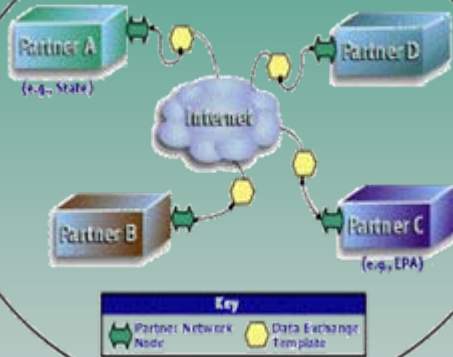
- Describe format of data being exchanged
- Consist of XML schema
- Incorporate data Standards
- XML Schema for flows found in the Registry



How the pieces fit together

Environmental Department

Network Overview



Web
Server Node



Single
Integrated
System

State systems may
or may not be integrated.

Both partners map data to be
exchanged to same XML
Schema

Internet

EPA

EPA
NODE
(CDX)



SDWIS
Federal
System

RCRAInfo

Drinking Water Reporting Schema Package

```
<SDWIS: DrinkingWaterReport>
  <Site Information>
    <Facility #><location>
    <Chemical Info>
    <limit><.88ppm>
```

DET



Hazardous Waste Reporting XML Schema Package

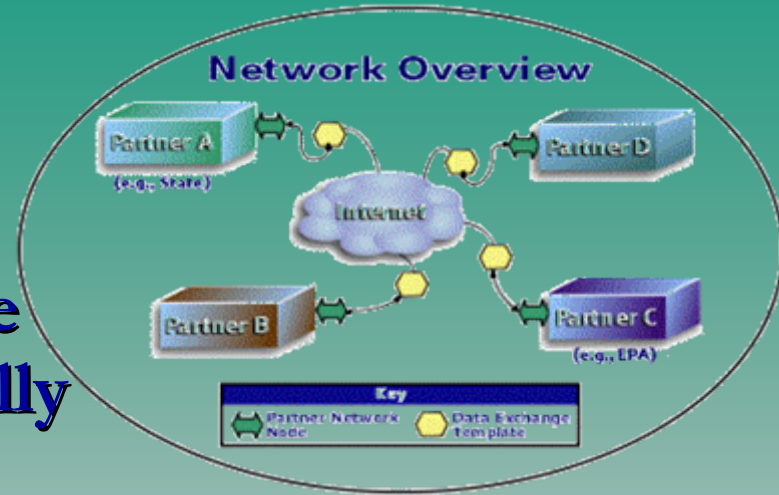
```
<RCRA Facility Status Report>
  <Site Information>
    <Facility #><location>
    <Status Code>
```



Exchange Network Grant Program

Purpose:

- Assist states, tribal governments, and territories to develop the capabilities to participate fully



Goal:

- Enhance electronic reporting capabilities
- Reduce information collection and reporting burdens
- Integrate data from different sources
- Provide timely access to environmental data
- Improve data quality



FY 2009 Grant Program Focus

Evaluation Criteria

- **Expected Environmental Outputs, Outcomes**
- **and Environmental Results (20 points)**
- **Feasibility/Approach (20 points)**
 - design of project and relationship between project goals, outputs, outcomes, and environmental results.
 - clearly articulates the roles and responsibilities of each partner, the milestones, and a schedule that ensures the work will be accomplished during the project period.
 - clearly stating coordination between the IM/IT department and Environmental/Health programs on this project (e.g. regularly scheduled meetings, a coordination plan, or as described in Appendix D).
 - identified potential problem areas and project dependencies.
 - potential for other Exchange Network partners to build on its results.



FY 2009 Grant Program Focus

Evaluation Criteria

- **Relevance/Significance** (30 points):
 - deploying regulatory and national system flows,
 - establishing new 2.0 Nodes,
 - upgrading Nodes,
 - Network publishing,
 - establishing non-regulatory data flows, and
 - developing innovative projects
- **Budget, Resources and Key Personnel** (10 points)
- **Environmental Results Past Performance** (20 points)



FY 2009 Grant Program Focus

- **Enhance basic IM/IT capabilities**
- **Develop or Upgrade Exchange Network nodes or node clients**
- **Develop/Update Exchange Network data flows:**
 - Air Facility System (AFS) and/or Air Quality System (AQS);
 - Beach Notification;
 - Facility Registry System (FRS);
 - Integrated Compliance Information System – National Pollutant Discharge Elimination System (ICIS-NPDES);
 - Emission Inventory System (EIS);
 - Resource Conservation and Recovery Act Information System (RCRAInfo);
 - Safe Drinking Water Identification System (SDWIS);
 - Toxics Release Inventory System (TRIS); and
 - Water Quality Exchange.
- **Implement collaborative, innovative projects that demonstrate the value of the Exchange Network**



Eligible Water Data

- Water Quality Exchange (WQX)
- Beach Data
- Safe Drinking Water Identification System (SDWIS)
- Integrated Compliance Information System – National Pollution Discharge Elimination System (ICIS)-NPDES



Water Quality Exchange (WQX)

- The Water Quality Exchange (WQX) allows Network partners to share ambient water quality data with the U.S. EPA.
- WQX represents the next evolution for EPA's STORET model for sharing water quality data.
- EPA will transition away from a distributed database model towards the Exchange Network model for the sharing of data. This transition is expected to be fully completed in 2009. The release of WQX constitutes a major component of that transition.



Water Quality Exchange (WQX)

■ Version 1

- The physical conditions in the environment at the time of a site visit;
- The chemical and bacteriological make-up of the water sampled;
- Chemical analyses of fish tissue collected.

■ Version 2

- Biological Taxon Abundance data, including population census, frequency class, group summaries, and individual results;
- Toxicity data;
- Habitat Assessment scores and their related metric scores;
- Biological Index scores and their related metric scores.



Exchange Network Grant Program

FY 2009 Grant Program

■ NEIEN Grant Program Solicitation Notice

➤ Issued September 2009

➤ Available on line:

<http://www.epa.gov/exchangenetwork/>

<http://exchangenetwork.net/>

➤ Available by calling Pat Eklund 415-972-3738

■ Schedule

➤ November 21, 2008 – Applications due to EPA

➤ April 2009 – Notification on funding recommendations





Exchange Network Grant Program

Hints for FY 2009

- ❖ **Read Grant Guidance carefully**
- ❖ **Focus on priority data flows**
- ❖ **Look for opportunities to link environmental and health data**
- ❖ **Emphasize accomplishments with funds received to date and gaps**
- ❖ **Look at grant drawdown**
- ❖ **Make sure your semi-annual and final technical reports have been sent to the NEIEN Program Manager (Pat Eklund)**



Exchange Network Grant Program

For more information

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415-972-3738

eklund.patricia@epa.gov